

Purchase Order Receipt Listing

Tuesday, June 20, 2017 4:27:32 PM

All amounts are calculated in domestic currency.

Page 1 of 2

All Vendors PO ID PO36707 All Receipt Dates All Line Item Types
All Item ID/GL/WOs All Rec. Employees All Currencies
Grouped by Vendor B

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
VendorID\Vendor Name		VC-CAM002	Acier Ouellette Inc.								
PO36707	10	71401-45			6/20/2017	6/20/2017	1.0000	\$0.00	0.0000	0	\$0.00
CAD	No	PROCUREMENT QUALITY CLAUSES m137844			1.0000	PLOU01		\$0.00	0.0000	0	
Total Received Quantity:											
Total Qty to Inspect (PO U/M):											
Total Reject Quantity:											
Total Receipt Value:											
Total Balance Due Quantity:											

Total Received Quantity: 239.7000
 Total Qty to Inspect (PO U/M): 0.0000
 Total Reject Quantity: 0.0000
 Total Receipt Value: \$1,235.10
 Total Balance Due Quantity: 0.0000

DELIVERY - CLIENT

CO000036179



ACIER OUELLETTE INC.

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Billed to

DART AEROSPACE LTD

1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Shipped to

Salesman

Carrier

Credit Terme

Page

Delivery Route

5

Customer N°

36707

Date

2017/06/20

Delivery date

2017/06/20

Your order N°

Josianne Bourdon

Processed by

OUELLETTE VALLEYFIELD

Net 30 Days

Instruction	F-M	Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only			
						CMD	EXP	B/O	IN	I	S	C
1	ALU SHEET .040 (18G) 2024-T3 4B (4 X 12) FEAL-0404122024B 3118 <i>1 X 4' X 12' HEAT;</i>		27.02	48.00	PI2_\$CLB							
2	PLAT SS 304 5/8 X 3 (12R) <i>N</i>			1.00	UN							
3	ROUND SS 3/4 304 (12R) RSS-34-12 <i>5759</i>		36.05	24.00	PI1_\$CLB							
4	SHEET SS 16G SS304-2B (4 X 8) FESS-16G483042B <i>3419</i>		168.00	64.00	PI2_\$CLB							
5	ALU SHEET .040 (18G) 5052-H32 (4 X 8) FEAL-040485052 <i>3124</i>		36.03	64.00	PI2							
	<i>2 X 4' X 8' HEAT:8499874 2 X 4' X 8' HEAT:1A366-2-5-1</i>											

NIR : R-109516-6

Next Page...

DELIVERY - CLIENT

CO000036179



ACIER OUELLETTE INC.

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
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Billed to

DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY
ONTARIO, Ontario, K6A 1K7

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route

5

Shipped to

DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY

OUELETTE VALLEYFIELD

Net 30 Days

Processed by

Josianne Bourdon

2017/06/15

2017/06/20

36707

Salesman

Carrier

Credit Terme

Page

2

Instruction	F-M	Product Description	Weight	Qty	U/M	PCS NB				Internal Use Only			
						CMD	EXP	B/O	IN	I	S	C	OUT
6	FLAT ALU 3/8 X 1 6061-T6 (20)		18.00	40.00	PL_\$CLB								
FAL-381-20	2610												
2 X 20' HEAT: 13121/0914													
7	ROUND ALU 5/8 6061-T6 (20)		7.22	20.00	PL_\$CLB								
RAL-58-20	5168												
1 X 20' HEAT:682259													
8	ROND AL. 6061T6 3 1/2" DIA (12)				UN								
N													
1 X 12' HEAT:1501624													
9	TUBE ROUND 3.500 OD X .250 HSS (24)		208.56	24.00	PL_\$CLB								
TR-3500250-24	6846												
J X 24' HEAT: 781139													

Total Weight (Lbs) : 500.88

NIR : R-109516-6

Conditions :
All sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All the goods returned must be with our authorization and are subject to a 25% restocking charge.

Prepared By :	Verified By :
---------------	---------------

Delivered By :	Time
----------------	------

Customer's Signature	Date
----------------------	------

Total (\$CAD)

CL11056 DART

P0.6882

 Bollinghaus Steel, SA DIN EN ISO 9001:2008 TÜV CERT No. 01 100 030458	Abnahmeprüfzeugnis/Mill Test Certificate/Certif. de Qualidade EN 10204:2004 / 3.1								No.: / Nr.: /Nr.: 0000127395					
	Unsere Innere Verweisung /Our Int. Ref. N/ ref int 5600034598 000040								Datum / Date / Data 11.04.2017					
Normen / Standards / Normas														
TYPE 304/UNS S30400 and TYPE 304L/UNS S30403 acc. to ASTM A276/A276M-18a, ASTM A182/A182M-18a, ASTM A193/A193M-16 ASTM A479/A479M-16a, ASTM A320/A320M-15a, ASTM A314-15, ASTM A262-15 Pract. E, AMS QQ-S-763D, AMS 5639H, AMS 5647J, ASME SA479/SA479M, ASME SA276, ASME SA182/182M, ASME SA 193/SA193M, ASME SA320/SA320M, NACE MR0175-2015, execution as per ASTM A484/A484M-16.														
Kunde / Customer / Cliente					Endgültiger Kunde / Final Customer / Cliente Final									
Bestell Nr./Order Nr. / Enc.Nr. C107841					Bestell Nr./ Order Nr. / Enc. Nr. C107841.2									
Produktgruppe / Product Group / Grupo Produto AISI 304/L FLAT 5/8 X 3"					Gewicht / Weight / Peso			Bunde / Bundle / Atados						
					2.060 lb			02						
Werkstoff-Nr. Material no. Qualidade			Werkstoff-Normbezeichnung / Material standard grade / Norma do material X 2 CrNi 18-9											
Beschreibung / Description / Descrição														
Stainless steel flat bars, hot rolled, heat treated, straightened and pickled. US DFAR 252.225-7009: MELT SOURCE: United Kingdom / MFG: Portugal.														
DAS 5 Schmelzen-Nr. Cast nr. / Fusão nr. 9-89 56170113														
Chemische Analyse in % / Chemical composition in % / Analise química em %														
C	0.018	Si	0.300	Mn	1.730	P	0.032	S	0.025	Cr	18.290	Ni	8.090	
EAF-AOD	Mo	0.380	Co	0.238	Cu	0.440	N	0.080	Ti	0.003	Nb	0.031	Al	0.007
ASTM E399				ASTM A370										
Proben Nr. Testno. Amostra nro.	Kerbsschlagarbeit Impact Test Resilience	Streckgrenze Yield point Tensão limite	Dehngrenze 1% point Limite de extensão	Zugfestigkeit Tensile strength Tensão de rotação	Dehnung Elongation Alongamento	Einschnürung Reduction of area Coef. Estribo								
	(Charpy V)	Rp 0,2 %	Rp 1,0%	Rm	A5	.40								
	[J]	[Ksi]	[Ksi]	[Ksi]	[%]	[%]								
3060704.C1.01	205.0	54.4	58.7	96.0	57.2	59.6	70.3							
Visuelle Kontrolle Visual inspection Inspeção visual	<input checked="" type="checkbox"/> Ok	ASTM E10			ASTM A262 Practice E			Wärmebehandlung Heat treatment Tratamento térmico						
ASTM A484		Härte Hardness Dureza	190	[HB]	Korrosionsbeständigkeit IC Test	<input checked="" type="checkbox"/>	Ok							
Maßkontrolle Dimensional inspection Inspeção dimensional	<input checked="" type="checkbox"/> Ok	ASTM E112			Corrosão intercristalina									
Verwechslungsprüfung Test of identity Teste de identificação	<input checked="" type="checkbox"/> Ok	Makroskopische Untersuchung Macrographic test			Werksachverständiger Quality Control Representative Inspector da Qualidade			Annealed Quenched 1800 °F (1050 °C) (water quenched)						
Bemerkungen / Remarks / Observações					Nuno Silva (Ω-NS)									
Country of origin: Portugal. No weld repair done. Material is free of mercury and radiation contamination.					Hiermit bestätigen wir, dass das Material der oben genannten Spezifikation entspricht. We confirm that this material meets the specification according to the mentioned standards. Confirmamos que este material respeita as especificações de acordo com as normas referidas.									
129.KPP														

199520

5759

48110

PO 6598



CHANDAN STEEL LIMITED
 (GOVT. OF INDIA RECOGNISED EXPORT HOUSE)

ED 99A : 2010 CERTIFICATE No. 10 ED 01202

ADM OFFICE: 10, SAWARIAH, H. S. PATHAK NAGAR, MURSHIDABAD, BENGAL, INDIA

Tel: 91-32-42250620, Fax: 91-32-42250630/34

Website : www.chandansteel.comEmail : info@chandansteel.net

L/c. No.:

L/c. Date:

WORLI Port No. 10, G. I. D. C., Mumbai

Dist. Valsad, Gujarat - 396 171.

Tel: 91-26-366 9919 Fax: 91-26-366 9972

E-mail : export@chandansteel.com

P024 QC 09A / 02 / 10.12.2012

MILL TEST / INSPECTION CERTIFICATE 3.1
 ACCORDING TO EN 10204 : 2005

				Test Certificate No. : EXP/01194 - 10/2016-2017							
				Date of Issue : 05.01.2017							
				P. O. No. : MNS426							
				SC_No. & Date : 16-17/00499, Dt.29.10.2016							
				Invoice No. & Date : EXP/01194/2016-17 Dt.05.01.2017							
PRODUCT DESCRIPTION				LENGTH							
STAINLESS STEEL ROUND BARS				Net Wt.							
				Ordered Actual							
				12' - 14' 12' - 14'							
DAS	Heat No.	Grade	Size	Tolerance							
39	CH-4835	304L	3/8"	h9							
CHEMICAL COMPOSITION (Weight %)											
	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	Ti	N
Min.	-	-	-	-	-	18.00	-	8.00	-	-	-
Max.	0.030	1.00	2.00	0.045	0.030	20.00	-	12.00	-	-	-
Results	0.025	0.40	1.74	0.041	0.007	18.10	-	8.02	-	-	-
MECHANICAL PROPERTIES											
Specified Value	Yield Strength N/mm ² /MPa (Rp0.2)		Tensile Strength N/mm ² /MPa (Rm)		Elongation %		Reduction of Area %		Hardness (HB)		
Min.	170		425		30		40		-		
Max.	-		-		-		-		-		
Results	462		730		42		63		229-232		
Remarks:											
1. Cold drawn & Centreless Ground.											
2. Solution annealed at 1050 °C.											
3. PMI test done 100% & found Satisfactory.											
4. Material is free from radio-active contamination.											
5. Inter-Granular Corrosion Test as per ASTM A262 - 15 (Pr.E) satisfactory.											
6. The material conforms to ASTM A276-15/A182-15/A679-15 Specifications.											
7. Location of sample - Centre, Direction - Longitudinal, Test Temp - Room Temp., Shape of Test Piece - Round.											
8. Marking details - Company Logo, Size, Grade & Heat No.											
9. The material is manufactured / melt in Chandan Steel Mill and is of Indian Origin.											
10. No welding/weld repairs was performed on this material.											
BUNDLE NO.: 9											

It is hereby certified that the above results are true and correct in every detail and are meeting the requirements of specification & purchase order.

B. S. RAUTELA
 MANAGER - QUALITY ASSURANCE



**NOTICE OF SHIPMENT
PACKING LIST**



CERTIFICATE OF TEST

CUST. ORO. NO. & DATE

12/13/16 08:21:39

P206081 FORMS DISTRIBUTION		CUST. CODE	Flat Rolled Products		PRODUCT CODE	MILL ORDER NUMBER	DATE SHIPPED
SOLD TO	1	SHIP TO	REPEAT ORDER	DO PR	GOVT CONTRACT	30-096-243	12/13/16
		SPEC	99108-2	26	7219.90 . 0000	1121	INVOICE
PRIME							
DSO							
SEC.							
DSO							
30							

GRADE CARRIER - M & A TRANSPORT
"ATI 304" STAINLESS STEEL SHEET C R COILS ANNEALED 2B FIN 3 EDGE
CAMDEN BLDG 90 HARRIS TERMINAL
2201 MT. EPHRAIM AVENUE
NEW JERSEY NJ 08104

GRADE
"ATI 304" STAINLESS STEEL SHEET C R COILS ANNEALED 2B FIN 3 EDGE
CARRIER - M & A TRANSPORT

ELONG AT FRACTURE

NR = DATA NOT REQUIRED
GRADE VERIFICATION WAS CARRIED OUT SPECTROSCOPICALLY

EN 10204:2005 - 3.1 CERTIFICATE DOES NOT INDICATE PED APPROVAL FOR THIS MATERIAL.

THESE COMMODITIES OR TECHNOLOGY, WHEN EXPORTED FROM THE UNITED STATES, ARE IN ACCORDANCE WITH THE USA EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW IS PROHIBITED. U.S. LAW ALSO PROHIBITS DISPOSITION OF THESE COMMODITIES/TECHNICAL DATA TO ANY END-USER OR FOR ANY END-USE RELATED TO THE DESIGN, DEVELOPMENT, PRODUCTION, STOCKPILING, OR USE OF CHEMICAL, BIOLOGICAL, OR NUCLEAR WEAPONS, OR MISSILES, WITHOUT THE PROPER APPROVAL OF THE UNITED STATES GOVERNMENT.

THIS CERTIFIED MATERIAL TEST REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL. FEDERAL LAW PROHIBITS THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE AND MAY BE PUNISHABLE AS A FELONY UNDER FEDERAL LAW. ATI FRP HOLDS SEVERAL QUALITY CERTIFICATIONS THAT INCLUDE ISO-9001, AS9100, NADCAP, AND ISO/IEC 17025. MATERIAL WAS MANUFACTURED IN ACCORDANCE WITH THE ATI FRP QUALITY MANUAL REVISION 24 DATED 10/16/2015.

PAGE 02 - CONTINUED ON PAGE 03

CONSIGNEE...Please Note-This consignment was turned over to

carrier in first class condition, being correctly loaded, at which time our responsibility for loss or damage in shipment ceased. For your protection please examine shipment as it arrives. If any shortage or damage is discovered, have a full description made by transportation agent on waybill before signing.

WARNING

Safety Data Sheets for this product are available on our website, www.ATImaterials.com. A thorough review of the Safety Data Sheet for the grade of material purchased shall be performed prior to working with this product and all safety & health considerations outlined must be implemented.

The above is a true copy of data on file. The material and test results conform to the sales contract and specification(s) as set forth in ATI Flat Rolled Products' Order Acknowledgement.

Stephen Wolff -
Director, Corporate Quality Assurance

12/13/16 08:21:39

**NOTICE OF SHIPMENT
PACKING LIST**

CUST. ORD. NO. & DATE

P206081

SOLD TO	1	SHIP TO	SPEC
---------	---	---------	------

SOLD TO

| 09/15/16 | 329587 | CUST. CODE

| VANDERGRIFT, PA | FINISHING LOCATION

| 522741 | SHIPPER NO.

| 13020102060000 | PRODUCT CODE

| 30-096-243 | MILL ORDER NUMBER

| 12/13/16 | DATE SHIPPED

| GOVT CONTRACT | SHIPPING LOCATION

| 1121 | INVOICE

| VANDERGRIFT | PA

| SHIP TO | 657047

| AMERINOX | BLDG 90 HARRIS TERMINAL

| 2201 MT. EPHRAIM AVENUE | CAMDEN

| NJ 08104 | CARRIER - M & A TRANSPORT

"ATI 304" STAINLESS STEEL SHEET C R COILS ANNEALED 2B FIN 3 EDGE

ATI FLAT ROLLED PRODUCTS PERFORMS CHEMICAL ANALYSIS BY THE FOLLOWING TECHNIQUES FOR TESTING LOCATIONS TC, BN, MI, & LO:

C, S BY COMBUSTION/INFRARED
N, O, H BY INERT FUSION/THERMAL CONDUCTIVITY

MN, P, SI, CR, NI, MO, CU, CB, CO, V BY WDXRF
B BY OES

AL AND TI (>=0.10%) BY WDXRF, OTHERWISE BY OES
PB, BI, AG BY GFAA

ATI FLAT ROLLED PRODUCTS HAS NO CONTROL OVER CUSTOMER PROCESSING OF MATERIAL; INCLUDING, BUT NOT LIMITED TO, BUFFING OR ELECTROPOLISHING MATERIAL WITH A 2B OR OTHER FINISH, AND OR GUARANTY THAT THE MATERIAL IS SUITABLE FOR ANY PARTICULAR PROCESS OR USE OF CUSTOMER. DOES NOT REPRESENT EN 10204:2005 3.1 CERTIFICATE.

TESTING WAS PERFORMED AT THE FOLLOWING LOCATIONS:
BN = ATI-FLAT ROLLED PRODUCTS; 100 RIVER ROAD; BRACKENRIDGE, PA 15014
TC = ATI-FLAT ROLLED PRODUCTS; 1300 PACIFIC AVENUE; NATRONA HEIGHTS, PA 15065

<<<<<< FOR ACCESS TO ONLINE CERTIFICATES OF TEST >>>>>>
<<<<<< REGISTER AT MYATI.ATIMETALS.COM >>>>>>

PAGE 03 - FINAL PAGE.

CERTIFICATE OF TEST

CONSIGNEE: Please Note - This consignment was turned over to

our responsibility for loss or damage in shipment caused at which time

protection please examine shipment as it arrives. If any shortage or damage is discovered, have a full description made by

WARNING

Safety Data Sheets for this product are available on our

website, www.ATIMetals.com. A thorough review of the Safety Data Sheet for the grade of material purchased shall

be performed prior to working with this product and all safety

and health considerations outlined must be implemented.

12/13/16 08:21:39

The above is a true copy of data on file. The material and test results conform to the sales contract

and specification(s) as set forth in ATI Flat Rolled Products Order Acknowledgement.

Stephen Wolff -

Director, Corporate Quality Assurance

P204294

产品质量证明书

INSPECTION CERTIFICATE

品名: 不锈钢冷轧钢板和钢管

No. Cold rolled stainless steel plate,

sheet and strip

304

Type

Specification

ASTM A240

Contract No.

Certificate No.

201409022820

客户名称:

宝裕

Customer

合同号:

Contract No.

证明书号:

Certificate No.

201409022820

P.C.

226300



江苏甬金金属科技有限公司

JIANGSU YONGJIN METAL TECHNOLOGY CO. LTD

地址: 江苏省南通高新区鹏程大道 999 号
Add : No.999 Pengcheng Road High-tech Industrial Development
Zone, Nantong, Jiangsu, ChinaTel : 0513-80608156
Fax : 0513-80608199
邮编: 226300

P.C. 226300

序号 No.	表面 Surface	钢卷编号 Coil No.	规格 Size (mm)	重量 Weight (Kg)	等级 Grade	拉伸试验 Tensile			硬度 Hardness (HV)	交货状态 State
						抗拉强度 T.S(N/mm ²)	屈服强度 Y.S(N/mm ²)	伸长率 Elong (%)		
1	2B	YJJ14Z07755B1	1.95*1250	5287	—	515 以上	205 以上	40 以上	201 以下	退火
2	2B	YJJ14Z07755B2	1.95*1250	5300	—	652	316	58	177/175/180	退火
3	2B	YJJ14Z08810A	1.17*1219	6878	—	627	271	59	170/173/174	退火
4	2B	YJJ14Z08810C	1.17*1219	6705	—	627	271	59	170/173/174	退火
5	2B	YJJ14Z08811A	1.43*1219	6850 ✓	—	640	283	58	171/174/176	退火
6	2B	YJJ14Z08812B	1.45*1219	6852 ✓	—	648	282	57	175/175/176	退火
合计				37872						

序号
No. 化学成分 Chemical composition %

No.	C	Si	Mn	P	S	Cr	Ni	N	Mo	Ti	Cu
MIN.	0.00	0.00	0.00	0.00	0.00	18.00	8.00	0.00	/	/	/
MAX.	0.08	0.75	2.00	0.045	0.03	20.00	10.50	0.10	/	/	/
1	0.045	0.34	1.14	0.040	0.005	18.27	8.02	0.052	0.03	/	0.16
2	0.045	0.34	1.14	0.040	0.005	18.27	8.02	0.052	0.03	/	0.16
3	0.044	0.39	1.04	0.034	0.002	18.11	8.09	0.052	0.09	/	0.35
4	0.044	0.39	1.04	0.034	0.002	18.11	8.09	0.052	0.09	/	0.35
5	0.041	0.42	1.09	0.037	0.003	18.21	8.08	0.054	0.07	/	0.25
6	0.039	0.41	1.08	0.030	0.005	18.32	8.09	0.055	0.03	/	0.13



*拉伸试验: 按 JJ GB/T 228-2002 标准 *Tensile Test: use Standard GB/T 228-2002

*硬度试验: 按 JJ GB/T4340.1-2009 标准 *Hardness Test: use Standard GB/T4340.1-2009

硬度试验: 按 JJ GB/T4340.1-2009 标准 *Hardness Test: use Standard GB/T4340.1-2009

CG . 36179

浙江永杰铝业有限公司

Zhejiang Yongjie Aluminum Co., Ltd.

Jiangdong Industrial Area, Xiaoshan Economic and Technology Development Zone, Hangzhou, 311222, China

MILL TEST

To:
EMPIRE RESOURCES, INC.
2115 LINWOOD AVENUE, FORT LEE, NEW JERSEY 07024, USA
TEL: 201-944-2200 X 123/FAX: 201-944-2226

Invoice No.: YJ1603174
Date: AUG. 17, 2016

SHIPPING MARKS:N/M
浙江永杰铝业有限公司
Jiangdong Industrial Area, Xiaoshan Economic and Technology Development Zone, Hangzhou, 311222, China

浙江永杰铝业有限公司
Jiangdong Industrial Area, Xiaoshan Economic and Technology Development Zone, Hangzhou, 311222, China

CHEMICAL COMPOSITION, %

Packag e No.	P O No.	Heat Number	Alloy/ Temper	Specification	Actual Thickn ess	N.W. (MT)	G.W. (MT)	CHEMICAL COMPOSITION, %									MECHANICAL PROPERTIES			
								Si	Fe	Cu	Mn	Mg	Ni	Zn	Ti	Cr	Al	T.S. (KSI)	Yield (KSI)	Elongat ion (%)
202-1	R151655	016070425-2	AA5052-H32	0.125**48**96"	0.124	2.918	2.070	0.120	0.260	0.010	0.010	2.380	--	--	0.010	0.180	97.03	31.9	25.3	9.5
202-2	R151655	016070346-1	AA5052-H32	0.125**48**96"	0.124	1.992	2.048	0.120	0.250	0.010	0.020	2.300	--	--	0.013	0.180	97.10	31.9	26.1	10.0
202-3	R151658	016070346-3	AA5052-H32	0.125**48**96"	0.124	1.958	2.026	0.120	0.250	0.010	0.020	2.300	--	--	0.013	0.180	97.13	31.9	26.1	10.0
202-4	R151644	016070724-3	AA3003-H14	0.250**48**96"	0.249	1.957	2.018	0.080	0.420	0.080	1.150	0.010	--	--	0.016	--	98.24	21.0	17.5	25.5
202-5	R151644	016070724-4	AA3003-H14	0.250**48**96"	0.249	1.954	2.016	0.080	0.420	0.080	1.150	0.010	--	--	0.016	--	98.24	21.0	17.5	25.5
202-6	R151644	016070563-4	AA3003-H14	0.090**48**120	0.090	2.026	2.094	0.320	0.470	0.110	1.320	0.010	--	--	0.015	--	97.75	20.7	19.5	11.5
202-7	R151647	016070563-1	AA3003-H14	0.090**48**120	0.090	2.028	2.096	0.320	0.470	0.110	1.320	0.010	--	--	0.015	--	97.75	20.7	19.5	11.5
202-8	R151647	016070563-2	AA3003-H14	0.090**48**120	0.090	2.027	2.092	0.320	0.470	0.110	1.320	0.010	--	--	0.015	--	97.75	20.7	19.5	11.5
202-9	R151647	016070563-3	AA3003-H14	0.090**48**120	0.090	2.029	2.096	0.320	0.470	0.110	1.320	0.010	--	--	0.015	--	97.75	20.7	19.5	11.5
202-10	R151629	016070552-3	AA3003-H14	0.080**48**120"	0.080	2.007	2.068	0.340	0.440	0.120	1.280	0.050	--	--	0.014	--	97.75	21.2	18.9	8.5
203-1	R151658	016070394-4	AA5052-H32	0.125**48**120"	0.124	1.926	1.988	0.080	0.230	0.010	0.010	2.450	--	--	0.012	0.180	97.02	32.9	26.1	10.5
203-2	R151668	016070394-1	AA5052-H32	0.125**48**120"	0.124	1.989	2.050	0.080	0.230	0.010	0.010	2.450	--	--	0.012	0.180	97.02	32.9	26.1	10.5
203-3	R151629	016070624-3	AA3003-H14	0.080**48**120"	0.080	1.996	2.060	0.180	0.530	0.090	1.050	0.010	--	--	0.015	--	98.12	20.6	18.3	12.0
203-4	R151629	016070561-4	AA3003-H14	0.080**48**120"	0.080	2.034	2.066	0.320	0.470	0.110	1.320	0.010	--	--	0.015	--	97.75	21.0	19.3	10.5
203-5	R151629	016070561-1	AA3003-H14	0.080**48**120"	0.080	2.001	2.064	0.340	0.440	0.120	1.280	0.050	--	--	0.014	--	97.75	21.3	20.4	8.5
203-6	R151629	016070552-1	AA3003-H14	0.080**48**120"	0.080	1.969	2.036	0.340	0.440	0.120	1.280	0.050	--	--	0.014	--	97.75	21.2	18.9	8.5
203-7	R151576	016070644-1	AA3003-H14	0.125**48**96"	0.124	1.829	1.892	0.150	0.490	0.090	1.020	0.010	--	--	0.015	--	98.22	20.2	17.8	10.0
203-8	R151576	016070644-2	AA3003-H14	0.125**48**96"	0.124	1.882	1.940	0.150	0.490	0.090	1.020	0.010	--	--	0.015	--	98.22	20.2	17.8	10.0
203-9	R151576	016070644-3	AA3003-H14	0.124	1.831	1.888	0.150	0.490	0.090	1.020	0.010	--	--	0.015	--	98.22	20.2	17.8	10.0	

MATERIAL CONFORMS FOR ALLOY 5052,H32 ALUMINUM ASSOCIATION STANDARDS, ASTM B209-10, AMS-QQ-A-250/8B AND AMS 4008K, COUNTRY OF MELT AND MANUFACTURE IN CHINA.

浙江永杰铝业有限公司

Zhejiang Yongjie Aluminum Co., Ltd.

Jiangdong Industrial Area, Xiaoshan Economic and Technology Development Zone, Hangzhou, 311222, China

MILL TEST

To:
EMPIRE RESOURCES, INC.

2115 LINWOOD AVENUE, FORT LEE, NEW JERSEY 07024, USA
TEL: 201.944.2200 X 123/FAX: 201.944.2226

SHIPPING MARKS: #WM

浙江永杰铝业有限公司
ZHEJIANG YONGJIE ALUMINUM CO., LTD.



Invoice No.: YJ1160317-4

Date: AUG. 17, 2016

Packag e No.	P O No.	Heat Number	Alloy/ Temper	Specification	CHEMICAL COMPOSITION, %										MECHANICAL PROPERTIES						
					Actual Thickn ess (MM)	N.W. (MT)	G.W. (MT)	Si	Fe	Cu	Mn	Mg	Ni	Zn	Ti	Cr	Al	T.S. (KSI)	Yield Strength (KSI)	Elongat ion (%)	
203-10	R151654	016070384-1	AA5052-H32	0.125"48"96"	0.124	1.972	2.322	0.060	0.250	0.001	0.004	2.700	--	0.005	0.011	0.180	96.73	33.1	26.0	12.5	
203-11	R151664	016070345-2	AA5052-H32	0.125"48"96"	0.124	1.966	2.322	0.120	0.250	0.010	0.020	2.300	--	0.013	0.180	97.10	31.9	26.1	10.0		
204-1	R151646	016070724-5	AA3003-H14	0.250"48"96"	0.249	1.749	1.512	0.080	0.420	0.080	1.150	0.010	--	--	0.016	--	98.24	21.0	7.5	25.5	
204-2	R151646	016070733-1	AA3003-H14	0.125"48"96"	0.124	1.934	1.992	0.050	0.480	0.080	1.110	0.010	--	--	0.016	--	98.21	23.2	21.0	9.5	
204-3	R151646	016071035-1	AA3003-H14	0.125"48"96"	0.124	1.908	1.968	0.080	0.460	0.080	1.110	0.010	--	--	0.016	--	98.24	20.3	17.3	13.5	
204-4	R151576	016071035-3	AA3003-H14	0.125"48"96"	0.124	1.910	1.970	0.080	0.460	0.080	1.110	0.010	--	--	0.012	--	98.24	20.3	17.3	13.5	
204-5	R151576	016071035-4	AA3003-H14	0.125"48"96"	0.124	1.909	1.972	0.080	0.460	0.080	1.110	0.010	--	--	0.012	--	98.24	20.3	17.3	13.5	
204-6	R151576	016070733-4	AA3003-H14	0.125"48"120"	0.124	1.997	2.058	0.080	0.480	0.080	1.110	0.010	--	--	0.015	--	98.21	23.2	21.0	9.5	
204-7	R151576	016070733-3	AA3003-H14	0.125"48"120"	0.124	1.996	2.054	0.080	0.480	0.080	1.110	0.010	--	--	0.015	--	98.21	23.2	21.0	9.5	
204-8	R151576	016070625-5	AA3003-H14	0.063"48"120	0.063	1.977	2.038	0.180	0.530	0.090	1.050	0.010	--	--	0.015	--	98.12	21.2	18.9	7.0	
204-9	R151576	016070625-6	AA3003-H14	0.063"48"120	0.063	1.993	2.054	0.180	0.530	0.090	1.050	0.010	--	--	0.015	--	98.12	21.2	18.9	7.0	
204-10	R151629	016070624-2	AA3003-H14	0.080"48"120"	0.080	1.999	2.050	0.180	0.530	0.090	1.050	0.010	--	--	0.015	--	98.12	20.6	18.5	12.0	
204-11	R151629	016070552-6	AA3003-H14	0.080"48"120"	0.080	1.998	2.060	0.180	0.540	0.090	1.020	1.280	0.050	--	--	0.014	--	97.75	21.2	18.3	8.5
205-1	R151645	016070724-2	AA3003-H14	0.250"48"96"	0.249	1.801	1.864	0.080	0.420	0.080	1.150	0.010	--	--	0.016	--	98.24	21.0	17.5	25.5	
205-2	R151652	2A938-15-2-3	AA5052-H32	0.050"48"96"	0.049	2.184	2.232	0.050	0.300	0.010	0.007	2.580	--	0.005	0.010	0.220	96.77	35.0	26.7	12.0	
205-3	R151652	2A931-21-1	AA5052-H32	0.050"48"96"	0.050	1.983	2.034	0.080	0.300	0.010	0.010	2.600	--	0.005	0.020	0.220	96.73	36.3	25.7	11.0	
205-4	R151555	016050864-3	AA5052-H32	0.050"48"96"	0.050	1.869	1.924	0.110	0.210	0.020	0.010	2.360	--	0.013	0.170	97.70	32.9	26.7	7.5		
205-5	R151555	2A938-15-2-2	AA5052-H32	0.050"48"96"	0.049	1.780	1.832	0.050	0.300	0.010	0.007	2.580	--	0.005	0.010	0.220	96.77	36.3	26.7	12.0	
205-6	R151552	016060564-2	AA5052-H32	0.050"48"120"	0.050	1.896	1.930	0.110	0.210	0.020	0.010	2.360	--	0.013	0.170	97.70	32.9	26.7	7.5		

MATERIAL CONFORMS FOR ALLOY 5052,H32 ALUMINUM ASSOCIATION STANDARDS, ASTM B209-10, AMS-QQ-A-250/2 AND AMS 4008K, COUNTRY OF MELT AND MANUFACTURE IN CHINA.
H32CONFORMS TO ALUMINUM ASSOCIATION STANDARDS, ASTM B209-10, AMS-QQ-A-250/2 AND AMS 4008K, COUNTRY OF MELT AND MANUFACTURE IN CHINA.

浙江永杰铝业有限公司

Jiangdong Industrial Area, Xiaoshan Economic and Technology Development Zone, Hangzhou, 311222, China

Zhejiang Yongjie Aluminum Co., Ltd.

MILL TEST

To:
 EMPIRE RESOURCES, INC.
 2115 LINWOOD AVENUE, FORT LEE, NEW JERSEY 07024, USA
 TEL: 201-944-2200 X 123/ FAX: 201-944-2226

SHIPPING MARKS:NUM

Packag e No.	P O No.	Heat Number	Alloy/ Temper	Specification	Actual Thickness (MM)	N.W. (MT)	G.W. (MT)	CHEMICAL COMPOSITION %								MECHANICAL PROPERTIES				
								Si	Fe	Cu	Mn	Mg	Ni	Zn	Ti	Cr	Al	T.S. (KSI)	Yield (KSI)	Elongat ion (%)
205-7	R151652	016060854-1	AA5052-H32	0.050**48**120"	0.050	1.893	1.954	0.110	0.210	0.020	0.010	2.360	--	--	0.013	0.170	97.10	32.9	26.7	7.5
205-8	R151525	016070433-3	AA5052-H32	0.500**48**120"	0.494	1.874	1.936	0.120	0.240	0.010	0.010	2.380	--	--	0.012	0.180	97.03	31.9	25.4	22.0
205-9	R151654	016070385-2	AA5052-H32	0.125**48**120"	0.125	1.952	2.016	0.090	0.240	0.010	0.010	2.460	--	--	0.012	0.180	96.99	32.9	26.5	9.0
205-10	R151629	016070631-2	AA3003-H14	0.053**48**120"	0.063	2.026	2.088	0.160	0.510	0.080	0.000	0.010	--	--	0.015	--	98.22	21.2	19.6	8.0
205-11	R151628	016070631-4	AA3003-H14	0.053**48**120"	0.063	2.007	2.068	0.160	0.510	0.080	0.000	0.010	--	--	0.015	--	98.22	21.2	19.6	8.0
206-1	R151649	016071215-2	AA5052-H32	0.250**48**C	0.249	4.304	4.342	0.080	0.200	0.010	0.010	2.370	--	--	0.010	0.180	97.14	34.1	26.1	15.0
206-2	R151649	016071215-1	AA5052-H32	0.250**48**C	0.249	4.400	4.436	0.080	0.230	0.010	0.010	2.370	--	--	0.010	0.180	97.14	34.1	26.1	15.0
206-3	R151661	016071092-1	AA5052-H32	0.250**48**C	0.249	4.418	4.452	0.080	0.240	0.010	0.010	2.380	--	--	0.010	0.180	97.11	32.8	24.7	14.0
206-4	R151661	016071095-1	AA5052-H32	0.250**48**C	0.250	4.420	4.458	0.080	0.240	0.010	0.010	2.380	--	--	0.010	0.180	97.11	32.5	24.8	14.0
206-5	R151629	016070551-4	AA3003-H14	0.080**48**120"	0.060	2.000	2.062	0.340	0.440	0.20	1.280	0.050	--	--	0.014	--	97.75	21.8	20.4	8.5
206-6	R151629	016070624-1	AA3003-H14	0.080**48**120"	0.080	1.998	2.062	0.180	0.530	0.090	0.050	0.010	--	--	0.015	--	98.12	20.5	18.6	12.0
206-7	R151629	016070551-2	AA3003-H14	0.080**48**120"	0.080	2.003	2.064	0.340	0.440	0.20	1.280	0.050	--	--	0.014	--	97.75	21.8	20.4	8.5
206-8	R151629	016070551-5	AA3003-H14	0.080**48**120"	0.080	2.001	2.064	0.340	0.440	0.20	1.280	0.050	--	--	0.014	--	97.75	21.8	20.4	8.5
207-1	R151525	1A366-2-5-2	AA5052-H32	0.040**48**C	0.039	4.569	4.640	0.040	0.200	0.010	0.020	2.470	--	0.004	0.020	0.200	96.95	34.2	26.8	6.5
207-2	R151625	016061092-1	AA5052-H32	0.040**48**C	0.039	4.291	4.356	0.110	0.220	0.010	0.010	2.400	--	--	0.011	0.170	97.06	33.5	28.0	7.0
207-3	R151625	1A366-2-5-1	AA5052-H32	0.040**48**C	0.039	4.422	4.492	0.040	0.200	0.010	0.020	2.470	--	0.004	0.020	0.200	96.95	34.2	26.8	6.5
207-4	R151625	016061092-2	AA5052-H32	0.040**48**C	0.039	4.305	4.374	0.110	0.220	0.010	0.010	2.400	--	--	0.011	0.170	97.06	33.5	26.0	7.0
207-5	R151625	016070562-3	AA3003-H14	0.080**48**144"	0.080	1.946	2.024	0.320	0.470	0.110	1.320	0.010	--	--	0.015	--	97.75	20.9	18.9	14.5
207-6	R151625	016070562-1	AA3003-H14	0.080**48**144"	0.080	1.945	2.026	0.320	0.470	0.110	1.320	0.010	--	--	0.015	--	97.75	20.9	18.9	14.5

H32 CONFORMS TO ALUMINUM ASSOCIATION STANDARDS, ASTM B208-10, AMS-QQ-A-250/8 AND AMS 4008K, COUNTRY OF MELT AND MANUFACTURE IN CHINA.

Zhejiang Yongjie Aluminum Co., Ltd.

Jiangdong Industrial Area, Xiaoshan Economic and Technology Development Zone, Hangzhou, 311222, China

MILL TEST

Invoice No.: YJ160817-4

Date: AUG. 17, 2015

To:
 EMPIRE RESOURCES INC.
 2115 LINWOOD AVENUE, FORT LEE, NEW JERSEY 07024, USA
 TEL: 201-944-2200 X 123/ FAX: 201-944-2226

SHIPPING MARKS:NIM

Packag e No.	P O No.	Heat Number	Alloy/ Temper	Specification	CHEMICAL COMPOSITION, %										MECHANICAL PROPERTIES					
					Actual Thickn ess	N.W. (MT)	G.W. (MT)	Si	Fe	Cu	Mn	Mg	Ni	Zn	Ti	Cr	Al	T.S. (KSI)	Yield (KSI)	Elongat ion (%)
207-7	R151525	016070562-2	AA3003-H14	0.080**48**144"	0.080	1.946	2.022	0.320	0.470	0.110	1.320	0.010	--	0.015	--	97.75	20.9	18.9	14.0	
207-8	R151526	016070562-4	AA3003-H14	0.080**48**144"	0.080	1.899	1.972	0.320	0.470	0.110	1.320	0.010	--	0.015	--	97.75	20.9	18.9	14.0	
208-1	R151546	016070155-1	AA5052-H32	0.250**48**C	0.249	4.216	4.250	0.080	0.210	0.010	2.340	--	--	0.011	0.190	97.14	31.0	23.9	15.0	
208-2	R151568	016071092-2	AA5052-H32	0.250**48**C	0.249	4.450	4.488	0.050	0.240	0.010	2.380	--	--	0.010	0.160	97.11	32.8	24.7	14.0	
208-3	R151660	016071030-1	AA3003-H14	0.125**48**C	0.124	4.594	4.630	0.080	0.460	0.080	1.110	0.010	--	0.012	--	98.24	20.3	17.6	10.5	
208-4	R151660	016071033-2	AA3003-H14	0.125**48**C	0.124	4.289	4.324	0.080	0.460	0.080	1.110	0.010	--	0.012	--	98.24	20.3	17.3	10.5	
208-5	R151660	016070573-1	AA3003-H14	0.125**48**C	0.125	4.558	4.594	0.360	0.480	0.120	1.240	0.010	--	0.015	--	97.77	21.0	19.0	10.5	
208-6	R151523	216070952-1	AA5052-H32	0.500**50**144"	0.499	1.882	1.978	0.080	0.230	0.009	0.040	0.240	--	0.005	0.021	0.170	96.95	31.3	23.8	24.5
208-7	R151523	216070952-4	AA5052-H32	0.500**60**144"	0.499	1.504	1.598	0.090	0.230	0.009	0.040	0.240	--	0.005	0.021	0.170	96.95	31.3	23.8	24.5
209-1	R151660	016070734-1	AA3003-H14	0.125**48**C	0.125	4.350	4.384	0.090	0.480	0.080	1.110	0.010	--	0.015	--	98.21	21.5	19.1	11.0	
209-2	R151660	016070734-2	AA3003-H14	0.125**48**C	0.125	4.506	4.540	0.090	0.480	0.080	1.110	0.010	--	0.015	--	98.21	21.5	19.1	11.0	
209-3	R151660	01607C715-2	AA3003-H14	0.125**48**C	0.124	4.387	4.418	0.110	0.450	0.080	1.090	0.010	--	0.017	--	98.24	20.3	17.8	13.0	
209-4	R151660	016070715-1	AA3003-H14	0.125**48**C	0.124	4.518	4.562	0.110	0.450	0.080	1.090	0.010	--	0.017	--	98.24	20.3	17.3	13.0	
209-5	R151526	016070625-2	AA3003-H14	0.063**48**144"	0.063	4.934	2.360	0.180	0.530	0.090	1.050	0.010	--	0.015	--	98.12	21.2	18.9	7.0	
209-6	R151526	016061194-4	AA3003-H14	0.063**48**144"	0.062	1.995	2.070	0.170	0.540	0.090	1.030	0.020	--	0.014	--	98.13	20.6	19.0	8.0	
209-7	R151526	016061194-3	AA3003-H14	0.063**48**144"	0.062	1.996	2.074	0.170	0.540	0.090	1.030	0.020	--	0.014	--	98.13	20.6	19.0	8.0	
209-8	R151525	016070562-5	AA3003-H14	0.080**48**144"	0.080	1.522	1.596	0.320	0.470	0.110	1.320	0.010	--	0.015	--	97.75	20.9	18.9	14.0	
210-1	R151643	016070725-1	AA3003-H14	0.250**48**C	0.250	4.571	4.608	0.080	0.420	0.080	1.150	0.010	--	0.016	--	98.24	20.9	18.1	21.5	
210-2	R151643	016071034-1	AA3003-H14	0.190**48**C	0.189	4.551	4.598	0.080	0.460	0.080	1.110	0.010	--	0.012	--	98.24	21.2	18.7	21.5	

MATERIAL CONFORMS FOR ALLOY 5052,H32 ALUMINUM ASSOCIATION STANDARDS, ASTM B209-10, AMS-QQ-A-250/8B AND AMS-4016L AND MATERIAL IN ALLOY 3003, H14 /I052, H32CONFORMS TO ALUMINUM ASSOCIATION STANDARDS, ASTM B209-10, AMS-QQ-A-250/2 AND AMS 4008K, COUNTRY OF MELT AND MANUFACTURE IN CHINA.

浙江永杰铝业有限公司

Zhejiang Yongjie Aluminum Co., Ltd.

Jiangdong Industrial Area, Xiaoshan Economic and Technology Development Zone, Hangzhou, 311222, China

MILL TEST

To:
EMPIRE RESOURCES, INC.
2115 LINWOOD AVENUE, FORT LEE, NEW JERSEY 07024, USA
TEL: 201.944.2200 X 123/FAX: 201.944.2226

SHIPPING MARKS:N/M

Chemical Composition, %

浙江永杰铝业有限公司

Jiangdong Industrial Area, Xiaoshan Economic and Technology Development Zone, Hangzhou, 311222, China

MILL TEST

Zhejiang Yongjie Aluminum Co., Ltd.

To:
EMPIRE RESOURCES, INC.
2115 LINWOOD AVENUE, FORT LEE, NEW JERSEY 07024, USA
TEL: 201.944.2200 X 123/FAX: 201.944.2226

Invoice No.: YJ160817-4
Date: AUG. 17, 2016

SHIPPING MARKS:N/M

Packag e No.	P O No.	Heat Number	Alloy/ Temper	Specification	Actual Thickn ess	N.W. (MT)	G.W. (MT)	CHEMICAL COMPOSITION, %									MECHANICAL PROPERTIES			
								Si	Fe	Cu	Mn	Mg	Ni	Zn	Ti	Cr	Al	T.S. (KSI)	Vieic (KSI)	Elongat ion (%)
212-7	R151629	016070631-5	AA3003-H14	0.063**48**120	0.063	2.005	2.068	0.160	0.510	0.080	1.000	0.010	--	--	0.05	--	98.22	21.2	9.6	8.0
212-8	R151629	016070561-3	AA3003-H14	0.080**48**120*	0.080	2.005	2.068	0.320	0.470	0.110	1.320	0.010	--	--	0.05	--	97.75	21.0	9.3	10.5
213-1	R151649	016060734-2	AA5052-H32	0.080**60**C	0.079	4.012	4.044	0.100	0.230	0.010	0.0-0	2.470	--	--	0.04	0.180	96.98	33.5	26.0	10.0
213-2	R151649	016060734-1	AA5052-H32	0.080**60**C	0.079	4.337	4.368	0.100	0.230	0.010	0.0-0	2.470	--	--	0.04	0.180	96.98	33.5	26.0	10.0
213-3	R151661	216080182-1	AA5052-H32	0.190**60**C	0.187	4.302	4.334	0.100	0.270	0.010	0.0-0	2.490	--	--	0.07	0.18	96.68	34.1	25.1	15.5
213-4	R151661	216080192-2	AA5052-H32	0.190**60**C	0.187	4.284	4.316	0.100	0.260	0.010	0.030	2.550	--	--	0.07	0.16	96.81	34.8	23.1	14.0
213-5	R151632	016071191-3	AA5052-H32	0.530**48**144*	0.494	1.652	1.736	0.080	0.250	0.010	0.010	2.430	--	--	0.11	0.200	96.99	32.9	25.1	22.0
213-6	R151632	016071191-4	AA5052-H32	0.530**48**144*	0.494	1.652	1.732	0.080	0.250	0.010	0.010	2.430	--	--	0.11	0.200	96.99	32.9	25.1	22.0
213-7	R151632	016071191-2	AA5052-H32	0.530**48**144*	0.494	1.656	1.728	0.090	0.250	0.010	0.010	2.430	--	--	0.11	0.200	96.99	32.9	26.1	22.0
213-8	R151523	016071133-5	AA5052-H32	0.375**48**120	0.369	1.631	1.634	0.090	0.240	0.010	0.020	2.400	--	--	0.13	0.180	97.04	32.2	26.7	21.5
213-9	R151629	016070552-4	AA3003-H14	0.080**48**120*	0.080	2.007	2.070	0.340	0.440	0.120	1.280	0.050	--	--	0.04	--	97.75	21.2	18.8	8.5
214-1	R151649	216080184-2	AA5052-H32	0.250**60**C	0.249	4.236	4.270	0.100	0.270	0.010	0.040	2.480	--	--	0.07	0.18	97.170	96.86	34.4	25.7
214-2	R151049	216080184-1	AA5052-H32	0.250**60**C	0.249	4.326	4.358	0.100	0.270	0.010	0.040	2.490	--	--	0.07	0.18	97.170	96.86	34.4	25.7
214-3	R151649	016070351-1	AA5052-H32	0.190**48**C	0.190	4.298	4.330	0.120	0.260	0.010	0.020	2.300	--	--	0.14	0.180	97.09	33.4	24.9	13.5
214-4	R151649	016071053-1	AA5052-H32	0.190**48**C	0.190	4.329	4.362	0.080	0.240	0.010	0.010	2.380	--	--	0.10	0.160	97.11	33.4	24.2	16.0
214-5	R151644	016071044-3	AA3003-H14	0.190**48**120*	0.189	2.118	2.185	0.070	0.430	0.090	1.110	0.010	--	--	0.12	--	93.27	22.5	19.3	19.0
214-6	R151644	016071044-4	AA3003-H14	0.190**48**120*	0.189	2.112	2.184	0.070	0.430	0.090	1.110	0.010	--	--	0.12	--	98.27	22.5	19.3	19.0
214-7	R151645	016070563-5	AA3003-H14	0.090**48**120*	0.090	2.044	2.112	0.320	0.470	0.110	1.320	0.010	--	--	0.15	--	97.75	20.7	16.5	11.5
214-8	R151645	016070823-4	AA3003-H14	0.090**48**120*	0.088	2.043	2.106	0.180	0.530	0.090	1.050	0.010	--	--	0.15	--	98.12	20.3	18.9	11.5

MATERIAL CONFORMS FOR ALLOY 5052H32 ALUMINUM ASSOCIATION STANDARDS, ASTM B209-10, AMS-QQA-250/8B AND AMS 4008K, COUNTRY OF MELT AND MANUFACTURE IN CHINA.
H32CONFORMS TO ALUMINUM ASSOCIATION STANDARDS, ASTM B209-10, AMS-QQA-250/8B AND AMS 4008K, COUNTRY OF MELT AND MANUFACTURE IN CHINA.

2610

FAL 381

TR

47300

Copie d'archive

Material Test ReportManifest: 272337

Ticket:

5345729

Our Order: 400728 - 6

Cust P.O.: LAV-15648

Die: BS05691

Part: 3420604

Alloy Temper: 6061 T6

Description: .375 x 1.000

Print Date: 1/15/14

Chemical Composition Range										
6061	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Other Each	Other Total
Min	0.40		0.15		0.8	0.04				
Max	0.8	0.7	0.40	0.15	1.2	0.35	0.25	0.15	0.05	0.15

Mechanical Properties

Strength ksi

Sample ID	DAS	Cast #	Lot #	Test Date	Ultimate Tensile	Yield 2% offset	Elongation 2" gage length
5			A11	1/14/14	41.76	37.37	11.4

Applicable Specifications: ASTM B221-13 QQA200/8

Country of Origin: ONTARIO, CANADA

Can Art Aluminum Extrusion Inc. certifies that materials shipped under this order have been inspected and tested in accordance with Aluminum Association and agreed upon customer specifications. Can Art assumes no liability for additional costs which may be incurred during the customer's manufacture and sale of its products, and is subject only to the replacement of any materials not within agreed upon specifications provided written notification is received by Can Art within 30 days from the date of shipment.

Ray Hussain - Tensile Testing

Authorized:



Evan Eng, Quality Assurance Mgr.

Code 5168

Test de dureté Rockwell Rockwell Hardness Test

Client / Customer : **LES ACIERS TRANSBEC (1997) LTEE.**

Adresse / Address :
**4054 BOUL. LE CORBUSIER, #201
LAVAL, QC
H7L5R2**

commande order # : **6120924**

bon de commande / Purchase order # : **OU-47030**

de matrice / Die # : **MS 9907** Description: **5/8"DIA ROD**

Alliage & trempage / Alloy & temper: **6061 T6** Longueur / Length: **6097 mm**

de contrôle / Control #: **82387-1**

de coulée / Cast #: **68259**

Dureté Rockwell E / Min. requis / Max. permis /
Rockwell E hardness : **89 HRE** Min. required : **88 HRE** Max. permitted : **100 HRE**

Composition chimique typique / Typical chemical composition :

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti
6063	0,20 - 0,60	0,35 Max	0,10 Max	0,10 Max	0,45 - 0,90	0,10 Max	0,10 Max	0,10 Max
6005	0,60 - 0,90	0,35 Max	0,10 Max	0,10 Max	0,40 - 0,60	0,10 Max	0,10 Max	0,10 Max
6005A	0,66- 0,74	0,14 - 0,28	0,08 - 0,16	0,18 - 0,26	0,46 - 0,54	0,03 Max	0,05 Max	0,05 Max
6061	0,40 - 0,80	0,70 Max	0,15 - 0,40	0,15 Max	0,80 - 1,20	0,04 - 0,35	0,25 Max	0,15 Max
6351	0,7 - 1,3	0,5 Max	0,10 Max	0,40 - 0,80	0,40 - 0,80	---	0,20 Max	0,20 Max

Nous certifions que le matériel fourni rencontre les exigences chimiques telles qu'annoncées par la norme **ASTM B-221-14** excepté pour la section 8.2 (nombre de spécimen) .

We hereby certify that the material supplied meets the chemical properties as published by the **ASTM B-221-14** except for section 8.2 (number of specimen) .

Sincèrement vôtre,
Yours truly,

Daniel Alfredo Pelletier
Directeur Qualité
Quality Director



Nanshan America
Advanced Aluminum Technologies
 3600 US Hwy 52 South
 Lafayette, Indiana 47909
 Main Office: (765) 269-4360

**CERTIFIED INSPECTION REPORT
FOR EXTRUDED PRODUCTS**

OUR ORDER NUMBER **102398**

ITEM **9**

BILL TO		MANIFEST NUMBER	DIE NUMBER	DATE OF SHIPMENT
1008B-Sinobec Resources, LLC		4993	1023	1/27/2015
SHIP TO				
1008B - S01-Port Transportation Inc.		CUSTOMER PO	ALLOY	SALESMAN
		U-15007	6061	Dennis Barton
CUSTOMER PART NUMBER		CUSTOMER PART NUMBER	TEMPER	
107531		40-00391	T6511-	
Melted in USA		DESCRIPTION		Rod 3.500" Diameter; Stenciled
Manufactured in USA				

1/15/12

Mechanical Properties

<u>Lot</u>	<u>Allloy</u>	<u>Test No.</u>	<u>DAS</u>	<u>Test Date</u>	<u>Ultimate Tensile Strength (KSI)</u>	<u>Yield Strength (KSI)</u>	<u>Percent Elongation</u>	<u>Hardness</u>	<u>Conductivity</u>
					15016249	89 01/25/15	55.4	49.2	15%
102398 9 1-A-1 /	6061	5							

Chemical Limits

ALLOY	Si	Fe	Cr	Mn	Mg	Cr	Ni	Zn	II	Ga	V	B	Zr	Bi	Pb	Sn	Sr	Co	Each	Total
ALLOY 6061																				
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.05	0.25	0.15	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.15	

Density:

Electrical Conductivity:

Thermal Conductivity:

Alloy Constant:

Chemical Composition

Cast Number	Alloy	Si	Fe	Cr	Mn	Mg	Cr	Ni	Zn	II	Ga	V	B	Zr	Bi	Pb	Sn	Sr	Co	Al	Other
1501069	6061	0.69	0.31	0.32	0.07	0.88	0.08	0.01	0.03	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	97.60	0.00	

Nanshan America hereby certifies that the material covered by this report has been inspected in accordance with, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. Mercury is not a normal contaminant in aluminum alloys. Neither mercury nor any of its compounds were utilized by Nanshan America in the manufacture of this material.

Edward A. Marcik
 Edward A. Marcik
 Quality Manager

TR 312250

TR 4188

Page 1 / 1

Certificat d'analyse

LIVRÉ À	VENDU À	DÉTAILS
935 BOUL. DU HAVRE VALLEYFIELD Quebec J6S 5L1 Canada		2016-09-14 Bon Livraison P.O du client L304168 69755 L108667

Description	Dimensions	PCS	N° de COULÉE	Spécifications
Tube HSS, Form. Froid	3.500 X 0.250 X 288.000	19	781139	ASTM A500-13 GRADE B / GRADE C
Tube HSS, Form. Froid	4.000 X 0.188 X 288.000	24	823708	ASTM A500-13 GRADE B / GRADE C

ANALYSE CHIMIQUE

N° de COULÉE	C	Mn	P	S	Ca	Si	Cu	Ni	Cr	Zr	Cb	Mo	V	Al	Zn	N	Sn	B	Ti
781139	0.1900	0.8100	0.01500	0.0120	0.00020	0.0260	0.0650	0.0210	0.0370		0.0050	0.0070	0.0000	0.0500	0.0040	0.0100	0.0002	0.0020	
823708	0.1900	0.8100	0.01100	0.0060	0.00020	0.0150	0.0360	0.0140	0.0340		0.0060	0.0040	0.0000	0.0410	0.0040	0.0060	0.0002	0.0020	

RÉSULTATS DES TESTS MÉCANIQUES

N° de COULÉE	PRODUIT/GRANDEUR	Lim. d'élast	Résist. traction	% allonge
781139	HSO 3.500 X 0.250	64900	72800	29.00
823708	HSO 4.000 X 0.188	62700	73600	28.00

N° de COULÉE	Fabriqué au(x)
781139	Canada
823708	Canada

LES TUBES D'ACIER IDENTIFIÉS SUR CE CERTIFICAT SONT FABRIQUÉS AU CANADA SUIVANT LES EXIGENCES SPÉCIFIÉES. LA COMPOSITION CHIMIQUE DU MATERIEL PROVIENT DU FOURNISSEUR D'ACIER. LES RÉSULTATS PHYSIQUES ET MÉCANIQUES SUR CE CERTIFICAT ONT ÉTÉ OBTENUS SUIVANT LES EXIGENCES PROPRES AU GRADE ET COPIE DES TESTS EST CONSERVÉE DANS NOS DOSSIERS POUR LA PÉRIODE REQUISE.

Autorisé par le département de contrôle de la qualité

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M304B0.625X3,000
 DATE: JUN 27 2017

PO / BATCH NO.: P036 707/M137844

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 12.91
 QUANTITY INSPECTED: 12.91
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .625
 THICKNESS RECEIVED: .640
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORROSION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<u>AStm A276</u>
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
PHOTO REQUIRED	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<u>H# 5617013</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>5</u>	SIGNED OFF BY: _____	
DATE: <u>JUN 27 2017</u>	DATE:	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE
(NOTE: AISI 303 NOT ACCEPTABLE)

PART NUMBER: M304B|T.TT|X|WW.WWW|
THICK|WIDTH

WHERE "T.TT" = THICKNESS IN INCHES
AND "WW.WWW" = WIDTH IN INCHES

△ EG. 0.5" x 12.0" PLATE = M304B0.500X12.000

		C		ADDED PLATE TO PURCHASE MATERIAL, ADDED PLATE RELATED SPECIFICATIONS AND DEG CHANGED TITLE FROM -304/316 BAR, TO -304/316 BAR/PLATE	
		B		REFORMATT DWG. ADD SPECS (ZN DB-1), REF-PAR-08-020A	
REV.	DESCRIPTION	REV.	DESCRIPTION	MB	10.11.25
A	NEW ISSUE			GP	09.07.15
REV.	DESCRIPTION	BY	DATE	PH	05.06.10
DESIGN	<u>PH</u>				
DRAWN					
CHECKED	<u>C.H.</u>				
MFG. APPR.	<u>C.H.</u>				
APPROVED	<u>C.H.</u>				
DE APPR.	<u>C.H.</u>				
DATE 10.11.25		DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		REV. C	
		TITLE M304B		SHEET OF 1	
				SCALE N.T.S.	
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2010-11-30
J.W.

6

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M304P0760
 DATE: JUN 27 2017

PO / BATCH NO.: M36707/M137844

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 24
 QUANTITY INSPECTED: 24
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .750
 THICKNESS RECEIVED: .747
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N	
CORRECT FINISH	Y <input checked="" type="checkbox"/> N	
CORROSION	Y <input checked="" type="checkbox"/> N	
CORRECT GRAIN DIRECTION	Y <input checked="" type="checkbox"/> N	
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="checkbox"/> N	ASTM A276
CORRECT THICKNESS	Y <input checked="" type="checkbox"/> N	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N	
CORRECT REF # TO LINK CERT	Y <input checked="" type="checkbox"/> N	# CH - 4835
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="checkbox"/> N	
CORRECT M# ON THE MATERIAL	Y <input checked="" type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>5</u> DATE: <u>9-89</u>	SIGNED OFF BY: DATE:
JUN 27 2017	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

8
7
6
5
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2
1

D

B

C

A

PURCHASE MATERIAL: AISI 304/316 SS ROUND BAR
(NOTE: AISI 303 NOT ACCEPTABLE)



SPECIFICATION:

ASTM A276

PART NUMBER:

M304R~~D~~^DD|

DIA.

WHERE "D,DDD" = DIAMETER IN INCHES

E.G. 0.75" ROUND BAR = M304R0.750

RELEASED
07/03/15

B	REFORMAT DWG. ADD SPECS (EN D6-1). REF PAR 00-020A	CP	09/07/15
A	NEW ISSUE	AJS	08/03/03
REV.	DESCRIPTION	BY	DATE
DESIGN	<i>HJS</i>	DART AEROSPACE LTD	
DRAWN	<i>AS</i>	HAWKESBURY, ONTARIO, CANADA	
CHECKED	<i>AS</i>	DRAWING NO.	
MFG. APPR.	<i>AS</i>	M304R	REV. B
APPROVED	<i>AS</i>	TITLE	SHEET 1 OF 1
DE APPR.	<i>AS</i>	304/316 ROUND BAR	SCALE
DATE	09.07.15	NTS	WT. PER LINEAR FT

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M304S1GGA
 DATE: JUN 27 2017

PO / BATCH NO.: DO36707/M137844

MATERIAL CERT REC'D: ups
 QUANTITY RECEIVED: 6456 ft
 QUANTITY INSPECTED: 6456 ft
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .063
 THICKNESS RECEIVED: .059
 SHEET SIZE ORDERED: 4X8'
 SHEET SIZE RECEIVED: 4X8'

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT FINISH	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORROSION	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT GRAIN DIRECTION	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="radio"/> N <input type="radio"/>	ASTM A240
CORRECT THICKNESS	Y <input checked="" type="radio"/> N <input type="radio"/>	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT REF # TO LINK CERT	Y <input checked="" type="radio"/> N <input type="radio"/>	4# 849874
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT M# ON THE MATERIAL	Y <input checked="" type="radio"/> N <input type="radio"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/> N <input type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/> N <input type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>5</u> DATE: <u>9-89 JUN 27 2017</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

8

7

6

5

4

3

2

1

D

PURCHASE MATERIAL: AISI 304/316 SS SHEET
ANNEALED

SPECIFICATION:

MILL-S-5059
OR AMS 5513 (304)
OR AMS 5524 (316)
OR ASIMMA240
OR ASME SA240

FINISH:

FINISH	DART M NUMBER
UNPOLISHED No. 1	IDENTIFIER 1P
UNPOLISHED No. 2D	2D
UNPOLISHED No. 2B	NONE
POLISHED No. 3	3P
POLISHED No. 4	4P
BUFFED No. 6	6P
BUFFED No. 7	7P
BUFFED No. 8	8P

PART NUMBER:

M304S TT [GA #P]

WHERE "TT" = GAUGE THICKNESS

WHERE "#P" = FINISH IDENTIFIER

EG. 16 GAUGE SS SHEET 2B FINISH = M304S16GA
EG. 16 GAUGE SS SHEET NO. 4 POLISHED = M304S16GA4P

GAUGE THICKNESS REFERENCE:

GAUGE	NOM. THICK. (IN)	THICKNESS RANGE (IN)
26	0.0185	0.0178-0.019
25	0.021875	0.0199-0.023
24	0.025	0.024 - 0.026
23	0.028125	0.027 - 0.029
22	0.03125	0.030 - 0.032
21	0.034375	0.033 - 0.035
20	0.0375	0.036 - 0.040
19	0.04375	0.041 - 0.046
18	0.050	0.047 - 0.052
17	0.05625	0.053 - 0.058
16	0.0625	0.059 - 0.065
15	0.0703125	0.066 - 0.072
14	0.078125	0.073 - 0.083
13	0.08375	0.084 - 0.098
12	0.09375	0.099 - 0.114
11	0.125	0.115 - 0.130
10	0.140625	0.131 - 0.145
9	0.15625	0.146 - 0.160
8	0.171875	0.161 - 0.176
7	0.1875	0.182 - 0.194
6	0.2031	0.194 - 0.212
5	0.2188	0.201 - 0.228
4	0.2344	0.225 - 0.243
3	0.2500	0.238 - 0.262
2	0.2656	0.254 - 0.278
1	0.2813	0.269 - 0.293
0	0.301	0.291 - 0.325

RELEASED

2015 FEB 04

ECL 15-122 ✓

47

DESIGN	DS	DART AEROSPACE LTD	
DRAWN	AJS	HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	
MFG. APPR.		M304S	REV. D
APPROVED		TITLE	SHEET 1 OF 1
DE APPR.		SCALE	NTS
DATE	15.01.06		

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without prior written permission from DART Aerospace Ltd.

8

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1

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M5052H325-.040
 DATE: JUN 27 2017

PO / BATCH NO.: P036707/M137844

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 6450ft
 QUANTITY INSPECTED: 6469ft
 QUANTITY REJECTED: 8

THICKNESS ORDERED: .040
 THICKNESS RECEIVED: .038
 SHEET SIZE ORDERED: 4X8'
 SHEET SIZE RECEIVED: 4X8'

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/>	
CORRECT FINISH	Y <input checked="" type="radio"/> N	
CORROSION	Y <input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	Y <input checked="" type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="radio"/> N	Astm B209
CORRECT THICKNESS	Y <input checked="" type="radio"/> N	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	Y <input checked="" type="radio"/> N	H# 14366-2-5-1
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="radio"/> N	
CORRECT M# ON THE MATERIAL	Y <input checked="" type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	DAS	ENGINEERING SIGNOFF (if required)
INSPECTED BY:	<u>5</u> <u>9-89</u>	SIGNED OFF BY: _____
DATE:	<u>JUN 27 2017</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

D

PURCHASE MATERIAL: 5052-H32 ALUMINUM SHEET

SPECIFICATION:

QQ-A-250/8 OR AMS-QQ-A-250/8
OR ARMS-4016
OR ASTM B209

A
PART NUMBER:

M5052H32S:XXX
THK

WHERE "XXX" = SHEET THICKNESS (IN INCHES)

EG. 0.063" THICK SHEET = M5052H32.063

PREFERRED SIZE:

.XXX BY 4FT BY 8FT

C

B

8
7
6
5
4
3
2
1

RELEASED
2009-10-30
NP

B	REFORMAT DNG, ADD B209 SPEC (ZN DB-1), PAR 08-020A		CP	09.09.26
A	NEW ISSUE	DS	01.06.08	
REV.	DESCRIPTION		BY	DATE
DESIGN		DART AEROSPACE LTD		
DRAWN	<i>GP</i>	HAWKESBURY, ONTARIO, CANADA		
CHECKED	<i>LA</i>	DRAWING NO.		
MFG. APPR.	<i>NP</i>	M5052H32S	REV. B	
APPROVED	<i>NP</i>	TITLE	SHEET 1 OF 1	
DE APPR.	<i>NP</i>	5052-H32 SHEET SPEC	SCALE	
DATE	09.09.26	NTS	NOT TO SCALE	
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NOT TO BE USED OR ANY PART THEREOF IS COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT				
THE EXPRESS WRITTEN CONSENT OF DART AEROSPACE LTD				

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MCORT6RC375X1000
 DATE: JUN 27 2017

PO / BATCH NO.: P036707/M137844

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 40
 QUANTITY INSPECTED: 40
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .375
 THICKNESS RECEIVED: .375
 SHEET SIZE ORDERED: _____
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <u>N</u>	
CORRECT FINISH	<u>Y</u> N	
CORROSION	Y <u>N</u>	
CORRECT GRAIN DIRECTION	<u>Y</u> N	
CORRECT MATERIAL PER M-DRAWING	<u>Y</u> N	<u>ASTm B221</u>
CORRECT THICKNESS	<u>Y</u> N	
PHOTO REQUIRED	Y <u>N</u>	
CORRECT REF # TO LINK CERT	<u>Y</u> N	<u>H# #13121091A</u>
CORRECT MATERIAL IDENTIFICATION	<u>Y</u> N	
CORRECT M# ON THE MATERIAL	<u>Y</u> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <u>N</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <u>N</u>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>5</u> <u>9-89</u>	SIGNED OFF BY: _____
DATE: <u>JUN 27 2017</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

8 7 6 5 4 3 2 1

D

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR
 SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
 OR QQA-200/8 OR AMS-QQA-200/8 (OR AMS 4160)
 OR ASTM B211 OR ASTM B221

A

PART NUMBER:

M6061T6B	T.TTT	X	WW.WWWW
	THICK		WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
 "WW.WWWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

C

C

D

D

B

B

B	REMOVE QQ-A-259/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZIN D7-1)		CP	09.07.13
A	NEW ISSUE		DS	01.06.08
REV.	DESCRIPTION		BY	DATE
DESIGN	DS	DART AEROSPACE LTD		
DRAWN	10	HAWKESBURY, ONTARIO, CANADA		
CHECKED	RJS	DRAWING NO.	REV. B	
MFG APPR.		M6061T6B	SHEET 1 OF 1	
APPROVED		TITLE	SCALE	
DE APPR.		6061-T6 BAR	NTS	
DATE	09.07.13			

RELEASED
R 2009 -05-17
MW

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B	C	D	E	F

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061+6R0.625
 DATE: JUN 27 2017

PO / BATCH NO.: P036707/M137844

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 20
 QUANTITY INSPECTED: 20
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .625
 THICKNESS RECEIVED: .628
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT FINISH	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORROSION	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT GRAIN DIRECTION	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="radio"/> N <input type="radio"/>	AStm B221
CORRECT THICKNESS	Y <input checked="" type="radio"/> N <input type="radio"/>	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT REF # TO LINK CERT	Y <input checked="" type="radio"/> N <input type="radio"/>	# # 68259
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT M# ON THE MATERIAL	Y <input checked="" type="radio"/> N <input type="radio"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/> N <input type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/> N <input type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
DAS INSPECTED BY: <u>5</u> DATE: <u>9-89 JUN 27 2017</u>	SIGNED OFF BY: _____
	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR

SPECIFICATION: QQ-A-2258 OR AMS-QQ-A-2258 (OR AMS 4117/4128/4115/4116)
OR QQ-A-2008 OR AMS-QQ-A-2008 (OR AMS 4160)

PART NUMBER

DIA.

WHERE "D.DDD" = DIAMETER IN INCHES

EG. 5/8" ROUND BAR = M6061T6R0.625

R RELEASED
2009-09-09
MH

B	REF/FORMAT	DWG.	ADD/B21 & B22/	SPEC/ZN	DB-1.
A	NEW ISSUE				
REV.	DESCRIPTION		DS	09/07/13	
DESIGN			BY	DATE	
DRAWN			DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		
CHECKED			DRAWING NO.	REV. B	
MFG. APPR.			M6061T6R	SHEET 1 OF 1	
APPROVED			TITLE	SCALE	
DE APPR.			6061-T6 ROUND BAR	NTS	
DATE	09.07.13		COPYRIGHT © 2001 BY DART AEROSPACE LTD. THIS DOCUMENT IS THE PROPERTY OF DART AEROSPACE LTD. NOT TO BE COPIED OR USED FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN CONSENT OF DART AEROSPACE LTD.		

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061 HCR 3.500
 DATE: JUN 27 2017

PO / BATCH NO.: PC36707/M137844

MATERIAL CERT REC'D: yrs
 QUANTITY RECEIVED: 12
 QUANTITY INSPECTED: 12
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 3.500"
 THICKNESS RECEIVED: 3.500"
 SHEET SIZE ORDERED: _____
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<u>Y</u> <u>(N)</u>	
CORRECT FINISH	<u>(Y)</u> <u>N</u>	
CORROSION	<u>Y</u> <u>(N)</u>	
CORRECT GRAIN DIRECTION	<u>(Y)</u> <u>N</u>	
CORRECT MATERIAL PER M-DRAWING	<u>(Y)</u> <u>N</u>	<u>A5tm B221</u>
CORRECT THICKNESS	<u>(Y)</u> <u>N</u>	
PHOTO REQUIRED	<u>Y</u> <u>(N)</u>	
CORRECT REF # TO LINK CERT	<u>(Y)</u> <u>N</u>	<u>H# #1501624</u>
CORRECT MATERIAL IDENTIFICATION	<u>(Y)</u> <u>N</u>	
CORRECT M# ON THE MATERIAL	<u>(Y)</u> <u>N</u>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<u>Y</u> <u>(N)</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	<u>Y</u> <u>(N)</u>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>5</u> <u>9-89</u>	SIGNED OFF BY: _____
DATE: <u>JUN 27 2017</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

D

D

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR

SPECIFICATION: QQ-A-2258 OR AMS-QQA-2258 (OR AMS 4117/4128/4115/4116)
OR QQA-2008 OR AMS-QQ-A-2008 (OR AMS 4160)

△
PART NUMBER:

M6061T6R[DIA.]
DIA.

WHERE "D DDD" = DIAMETER IN INCHES

EG. 5/8" ROUND BAR = M6061T6R0.625

B

7

B

6

C

5

C

4

D

3

D

2

C

C

B

B

C

C

		REFORMAT DWGS. ADD B211& B221 SPEC (ZN DB-1), REF PAR 08-020A		CP	09.07.13
A	NEW ISSUE	DS		DESCRIPTION	
REV.	BY	DATE		REVISION	
DESIGN					
DRAWN		DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
CHECKED		DRAWING NO. M6061T6R		REV. B SHEET 1 OF 1	
MFG. APPR.		TITLE		SCALE	
APPROVED		6061-T6 ROUND BAR		NTS	
DE APPR.		DATE		COPYRIGHT © 2001 BY DART AEROSPACE LTD This document contains trade secrets and confidential information of DART Aerospace Ltd. It is not to be used for any purpose other than its intended purpose. It is confidential and is prohibited from being copied or communicated to any other person except with the express written permission of Dart Aerospace Ltd.	
	09.07.13				



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO36707**

Purchase Order Date 6/15/2017
PO Print Date 6/15/2017

Page Number 1 of 5

Order From : VC-CAM002
ACIER OUELLETTE INC.
935 BOUL. DU HAVRE
VALLEYFIELD, QC J6S 5L1
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

E-MAILED
JUN 15 2017

Contact Name		Buyer	Chantal Lavoie
Vendor Phone	800 667 4248	Customer POID	
Ship To Contact		Customer Tax #	10127-2607
Ship To Phone		Terms	Net 30
Ship Via:	FedEx Economy collect	Currency	CAD
Ship Acct:		FOB	FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	CD	Promise Date	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	M2024T3S.040	2024-T3 .040 sheet	6/26/2017 Yes 6/26/2017			48.00 sf	\$11.44	\$549.02
		MATERIAL: 2024-T3 ALUMINUM SHEET AS PER QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037 OR ASTM B209						
2	M304B0.625X3.000	304 BAR .625 X 3.00	6/26/2017 Yes 6/26/2017			12.00 f <i>recu 12.9.</i>	\$24.25	\$291.00

MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE
AS PER ASTM A276 OR ASTM A240

NOTE: AISI 303 NOT ACCEPTABLE

SP17-6-20

Line Total: \$291.00

PO Instructions: QUOTATION: SOU0039744, SOU0039961

Note:



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO36707**

Purchase Order Date 6/15/2017

PO Print Date 6/15/2017

Page Number 2 of 5

Order From : VC-CAM002

ACIER OUELLETTE INC.
935 BOUL. DU HAVRE
VALLEYFIELD, QC J6S 5L1
CA

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 800 667 4248

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB FCA - (Free Carrier)

Ship To Contact
Ship To Phone
Ship Via: FedEx Economy collect
Ship Acct:

3	M304RO.750 ✓	304 SS Roundbar .750 ✓	6/26/2017	24.00	\$4.66	\$111.73
			Yes	f		
			6/26/2017			

MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276

(NOTE: AISI 303 NOT ACCEPTABLE)

Rec'd 24.8F.

4	M304S16GA ✓	304/316 Sheet .063 ✓	6/26/2017	64.00	\$6.51	\$416.56
			Yes	sf ✓		
			6/26/2017			

PURCHASE MATERIAL: AISI 304/316 SS SHEET

ANNEALED

SPECIFICATION: MIL-S-5059

OR AMS 5513 (304)

OR AMS 5524 (316)

ORASTMA240

OR ASME SA240

5	M5052H32S.040 ✓	5052-H32 .040 Sheet ✓	6/26/2017	64.00	\$2.65	\$169.60
			Yes	sf ✓		
			6/26/2017			

MATERIAL: 5052-H32 ALUMINUM SHEET AS PER
QQ-A-250/8 OR AMS-QQ-A-250/8 OR AMS 4016 OR ASTM B209

SP17-6-200

PO Instructions: QUOTATION: SOU0039744, SOU0039961

Note:



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO36707**

Purchase Order Date 6/15/2017

PO Print Date 6/15/2017

Page Number 3 of 5

Order From : VC-CAM002

ACIER OUELLETTE INC.
935 BOUL. DU HAVRE
VALLEYFIELD, QC J6S 5L1
CA

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 800 667 4248

Buyer Chantal Lavoie

Ship To Contact
Ship To Phone
Ship Via: FedEx Economy collect
Ship Acct:

Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB FCA - (Free Carrier)

					Line Total:	
6	M6061T6B0.375X01.000	6061T6 BAR .375 x 1.00	✓ 6/26/2017	40.00 f	\$1.12	\$44.81

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

					Line Total:	
7	M6061T6R0.625	6061-T6 Round Bar .625"	✓ 6/26/2017	20.00 f	\$0.97	\$19.49

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM ROUND BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

SP17-6-20

Line Total: \$19.49

PO Instructions: QUOTATION: SOU0039744, SOU0039961

Note:



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO36707**

Purchase Order Date 6/15/2017
PO Print Date 6/15/2017

Page Number 4 of 5

Order From : VC-CAM002

ACIER OUELLETTE INC.
935 BOUL. DU HAVRE
VALLEYFIELD, QC J6S 5L1
CA

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 800 667 4248

Buyer Chantal Lavoie

Ship To Contact
Ship To Phone
Ship Via: FedEx Economy collect
Ship Acct:

Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB FCA - (Free Carrier)

8	M6061T6R3.500	✓	6061 RD bar 3.50 ✓	6/26/2017	12.00 ✓	\$35.17	\$422.00
				Yes	f		
				6/26/2017			

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM ROUND BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

9	71900-90	TUBE ROUND 3.500" OD ✓ X .250" HSS	6/26/2017	1.00 ✓	\$166.74	\$166.74
			Yes	Each		
			6/26/2017			

Deliver To: IAN

Line Total: \$422.00

Line Total: \$166.74

PO Instructions: QUOTATION: SOU0039744, SOU0039961

Note:



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO36707**

Purchase Order Date 6/15/2017

PO Print Date 6/15/2017

Page Number 5 of 5

Order From : VC-CAM002

ACIER OUELLETTE INC.
935 BOUL. DU HAVRE
VALLEYFIELD, QC J6S 5L1
CA

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 800 667 4248

Buyer Chantal Lavoie

Ship To Contact
Ship To Phone
Ship Via: FedEx Economy collect
Ship Acct:

Customer POID

Customer Tax # 10127-2607

Terms Net 30

Currency CAD

FOB FCA – (Free Carrier)

10 71401-45	PROCUREMENT QUALITY CLAUSES	✓	6/26/2017	1.00	✓	\$0.00	\$0.00
-------------	--------------------------------	---	-----------	------	---	--------	--------

Procurement Quality Clauses
A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier
A043 retention of quality document

No

6/26/2017

Line Total: \$0.00

PO Total: \$2,190.95

PO Instructions: QUOTATION: SOU0039744, SOU0039961

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr: 5

Change Date: 6/15/2017